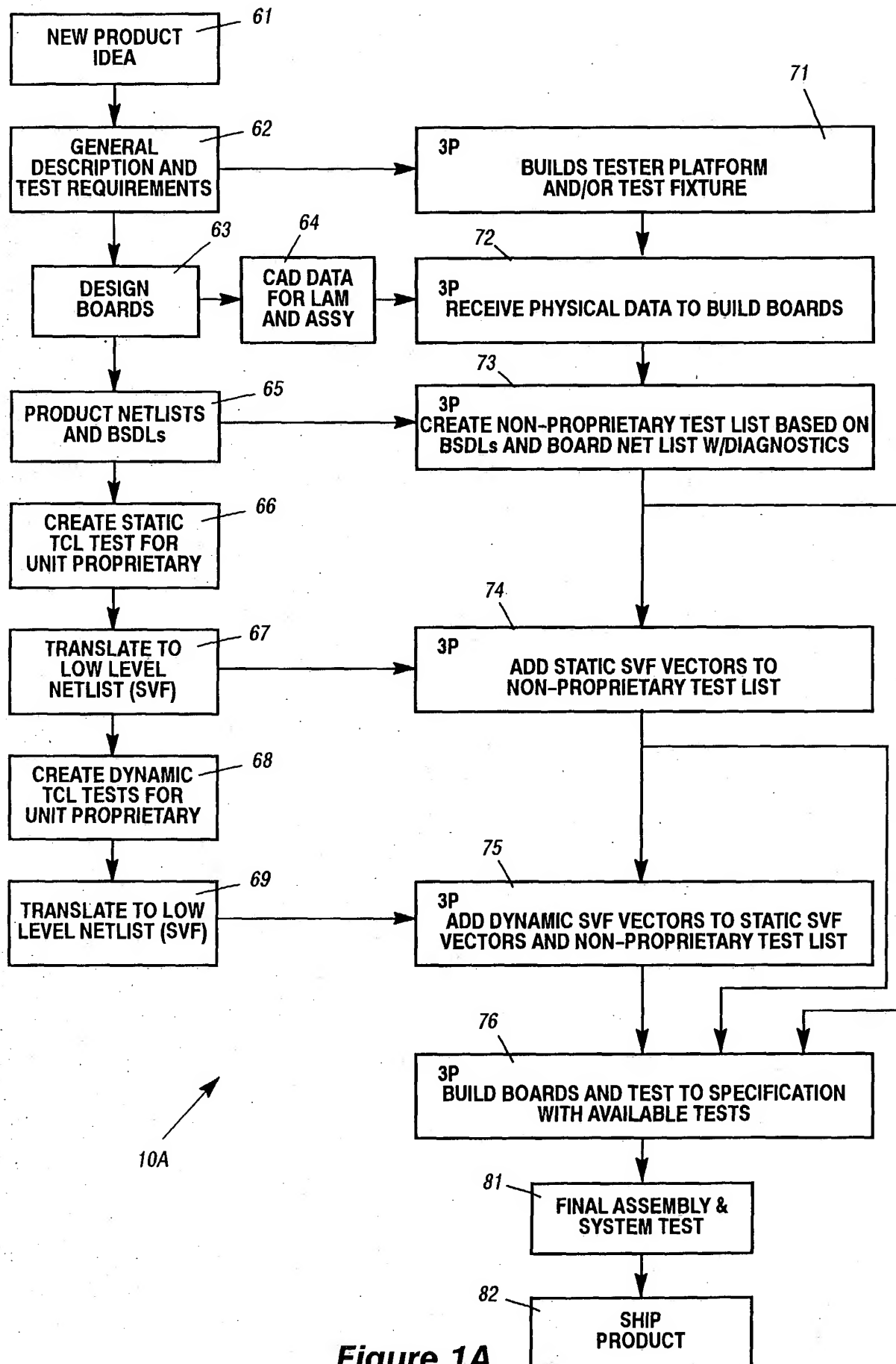
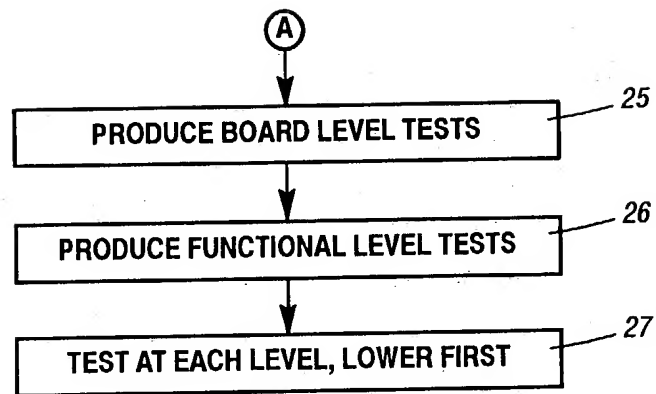


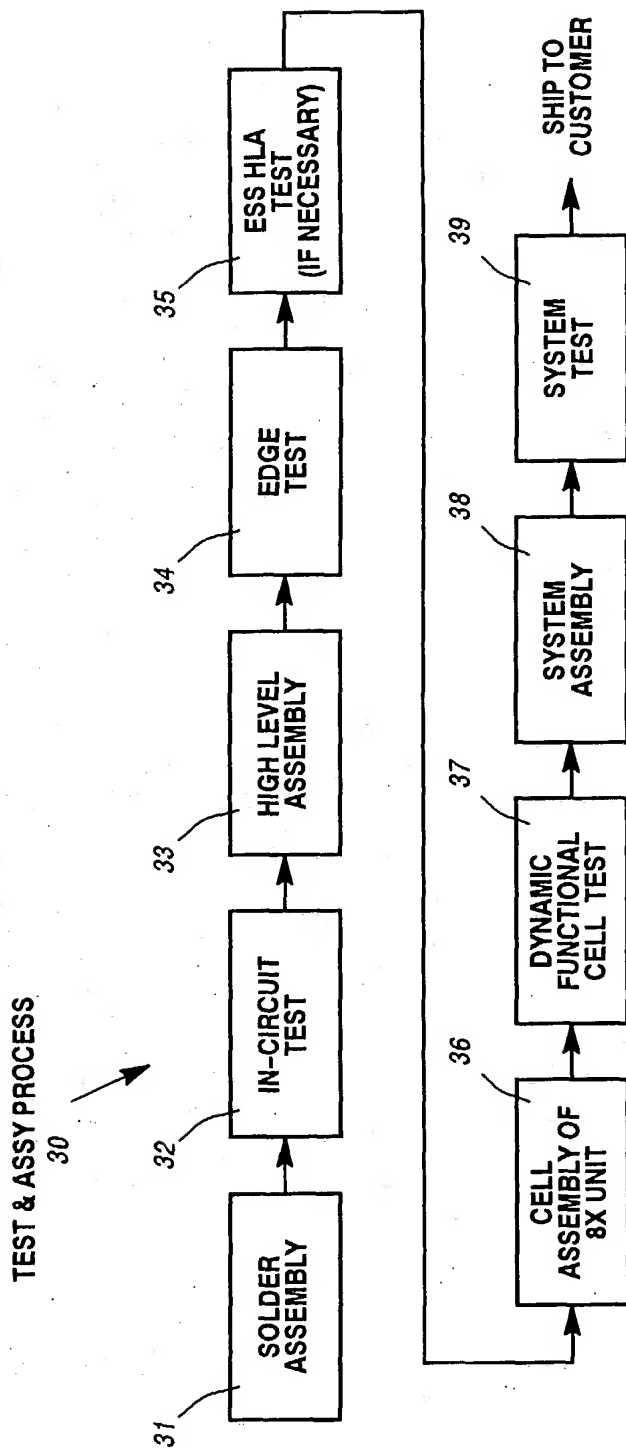
**Figure 1**



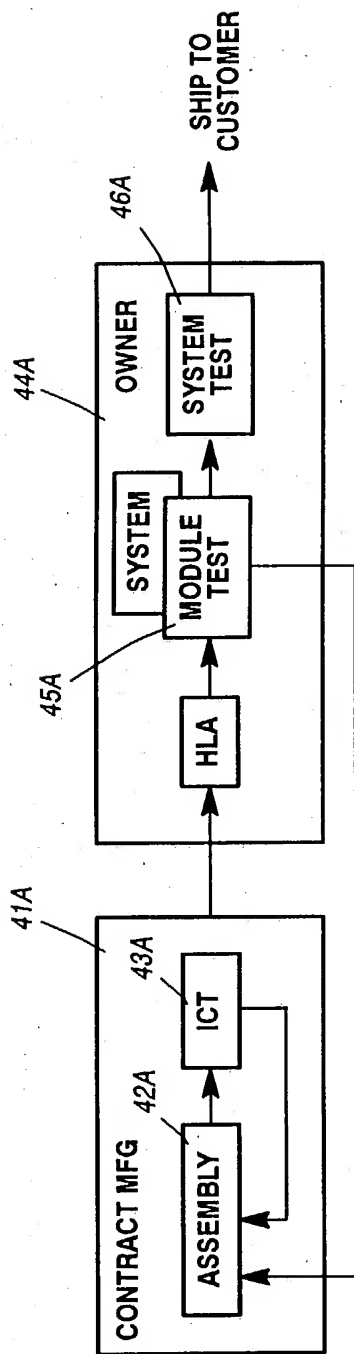
**Figure 1A**



**Figure 2**

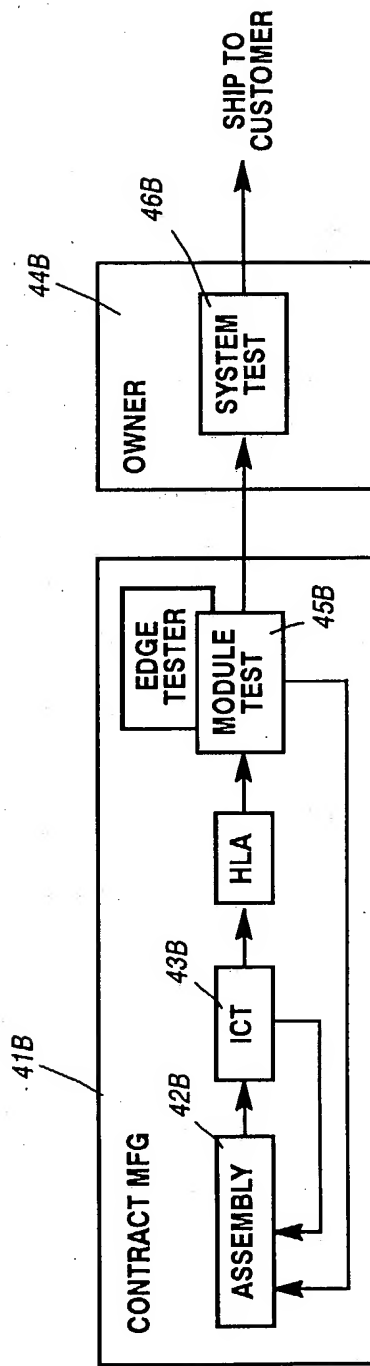


**Figure 3**



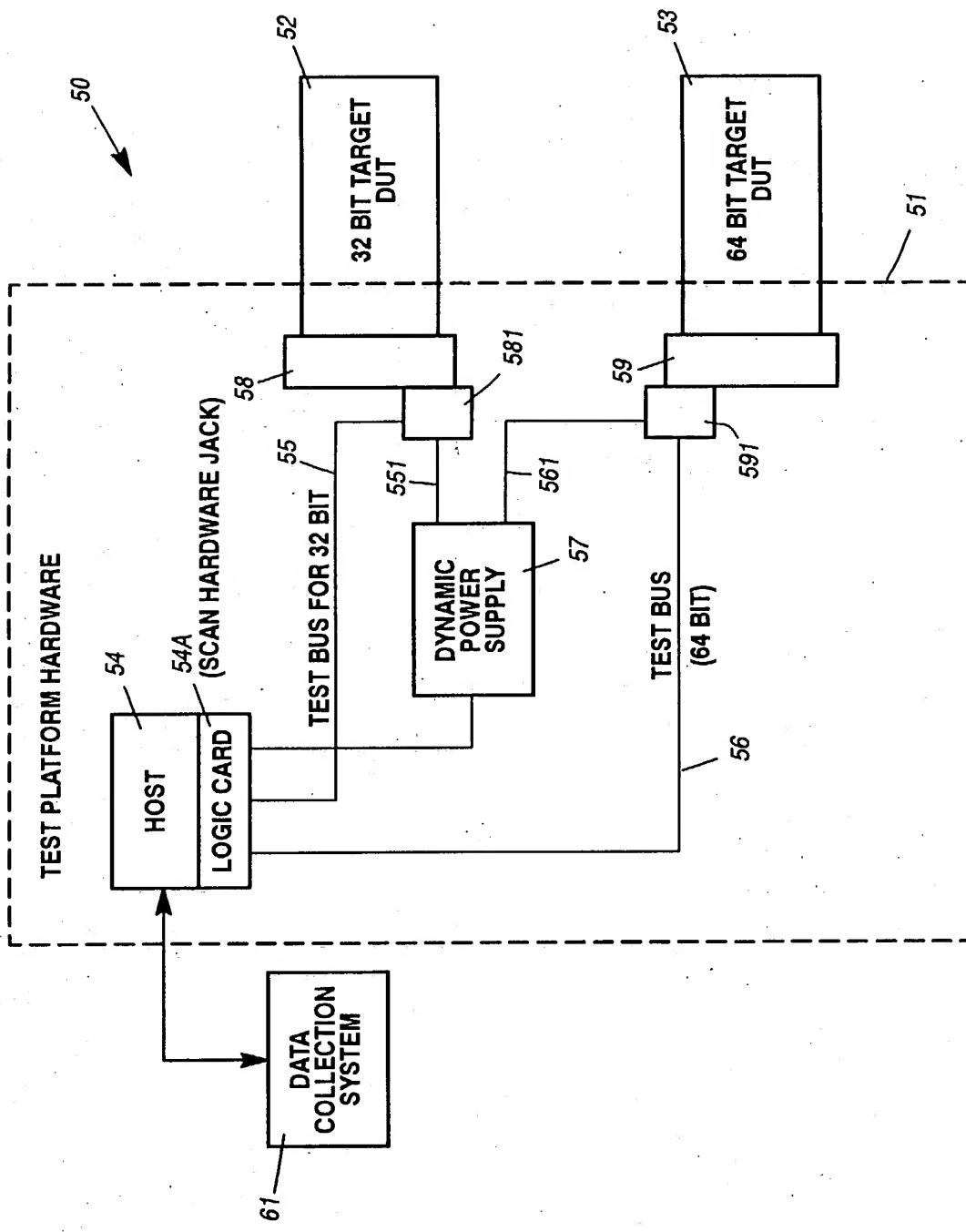
**Figure 4A**

*Prior Art*

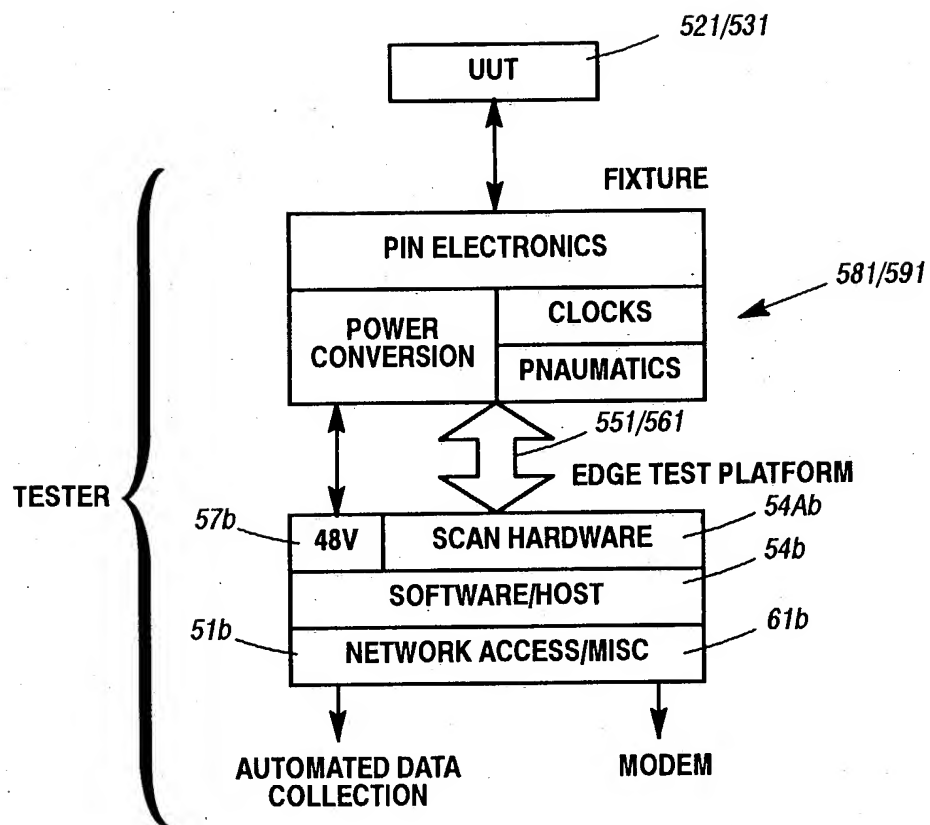


**FASTER FEEDBACK (DECREASED INVENTORY, QUICKER LEARNING, BETTER YIELD)  
IMPROVED DATA COLLECTION**

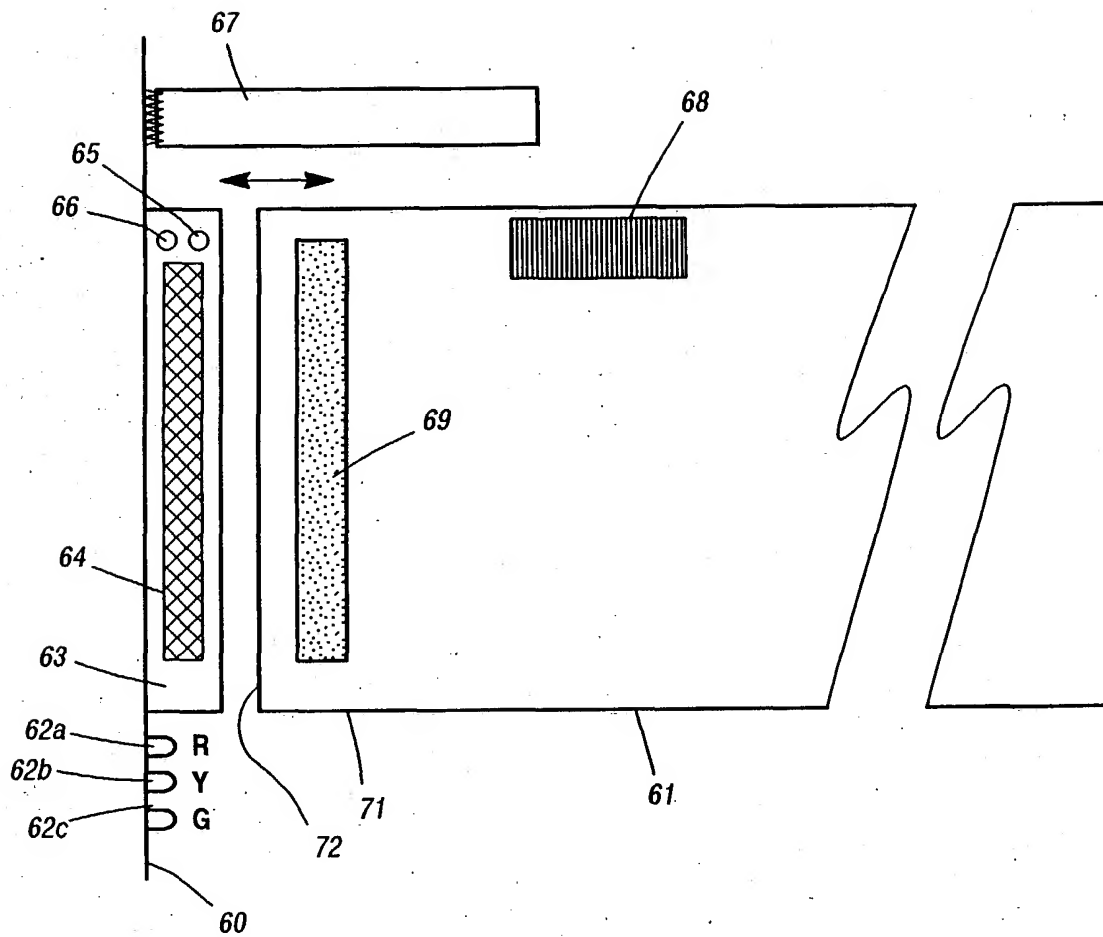
**Figure 4B**



**Figure 5A**

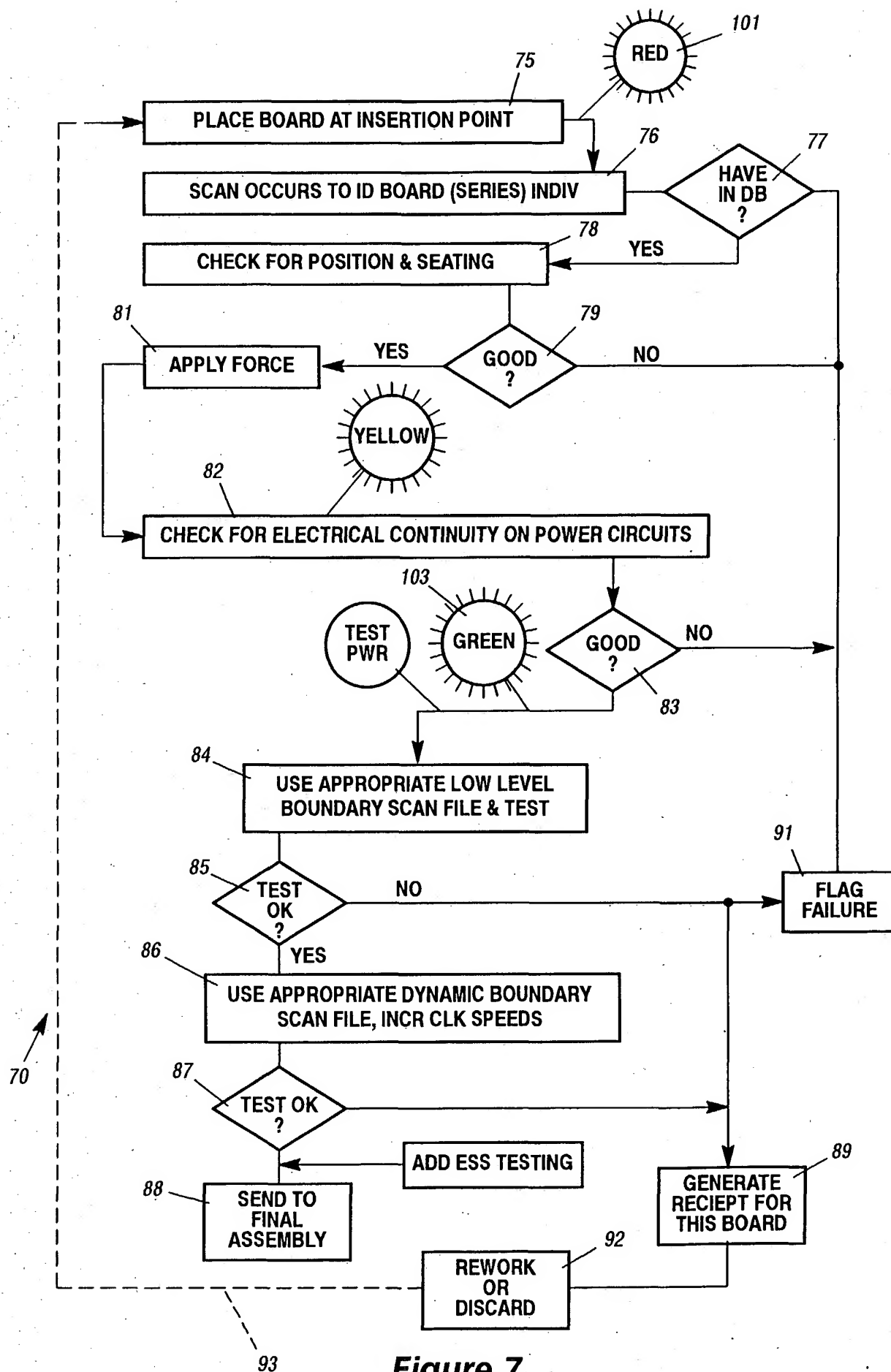


**Figure 5B**

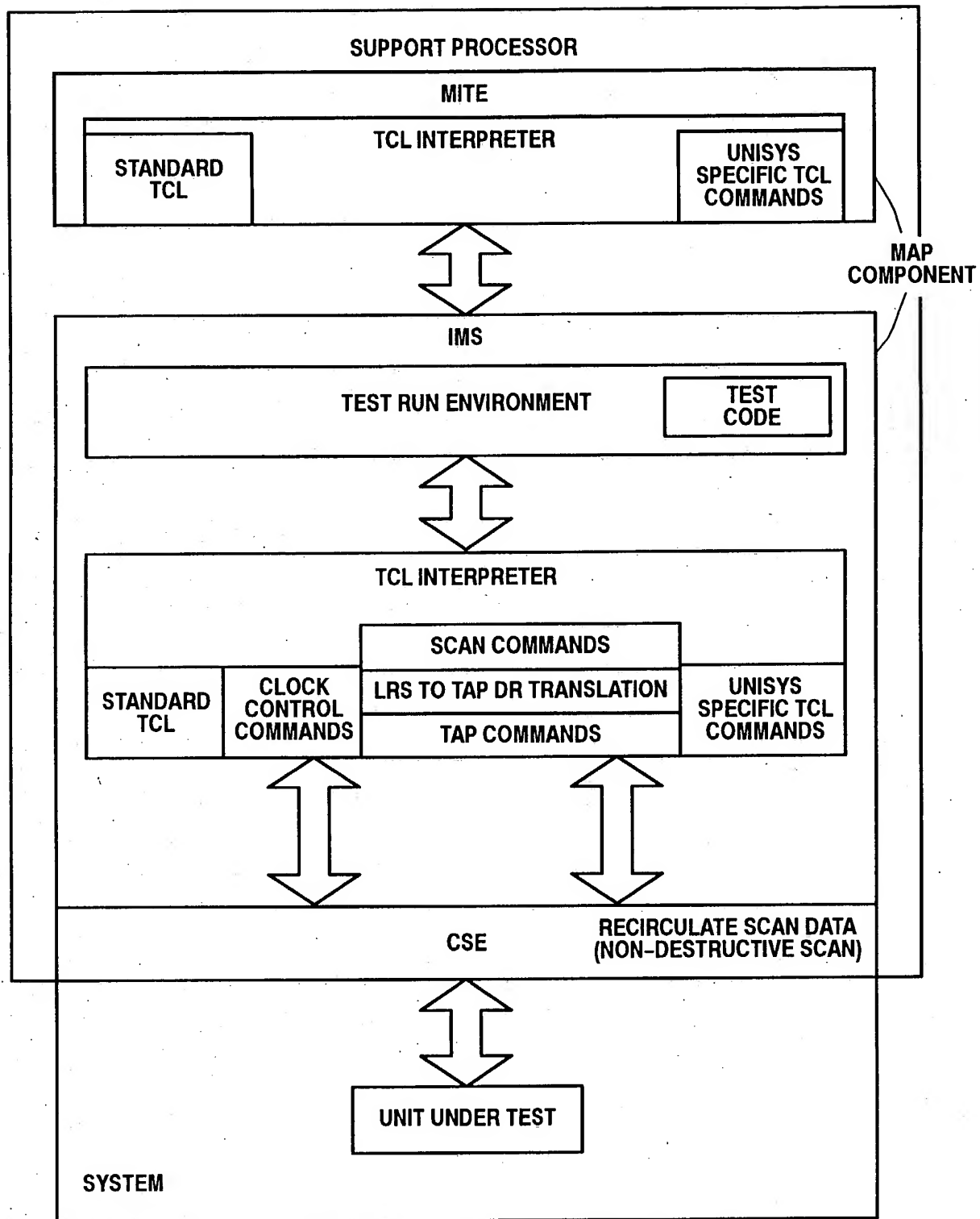


**Figure 6**



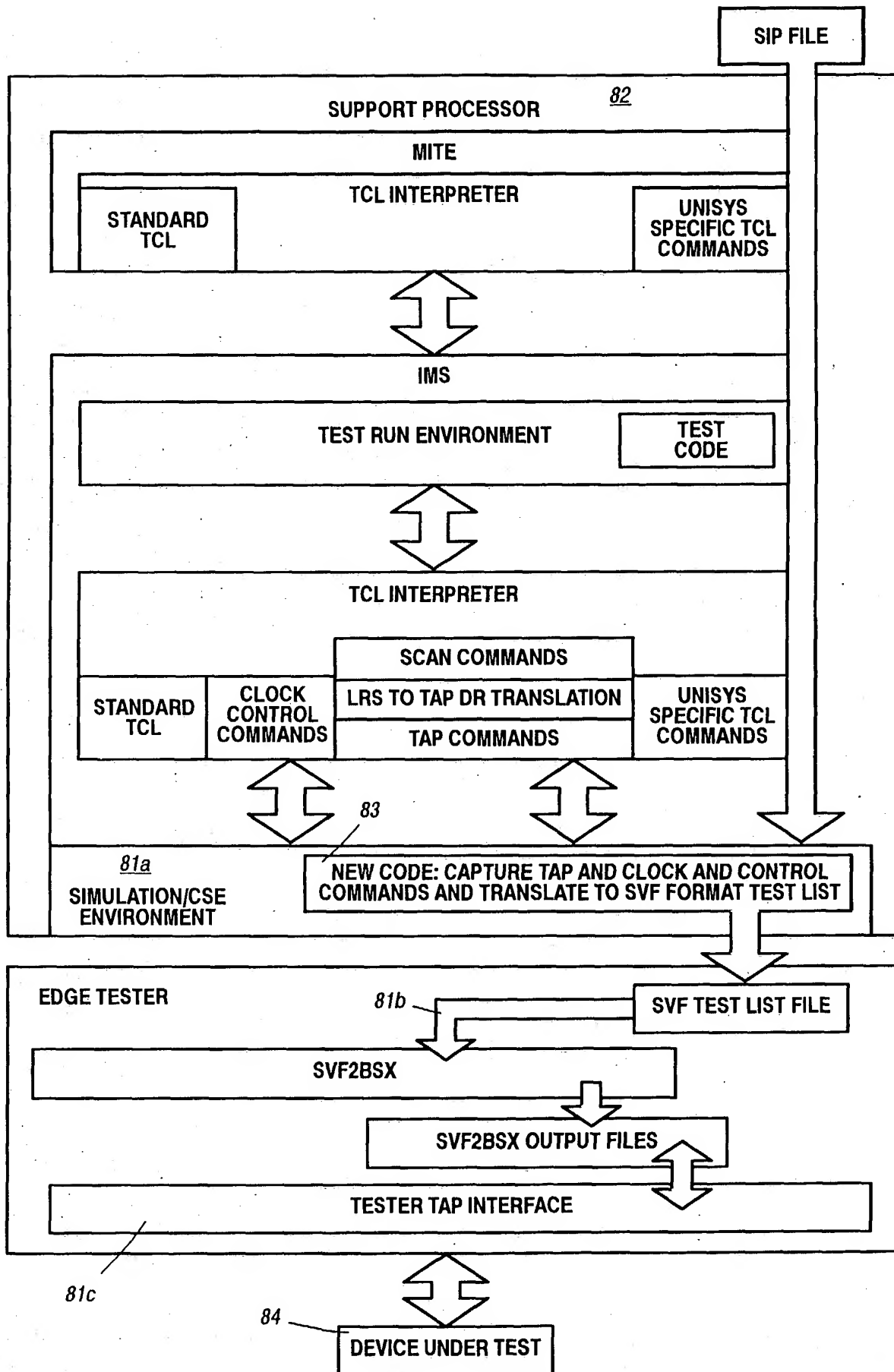


**Figure 7**

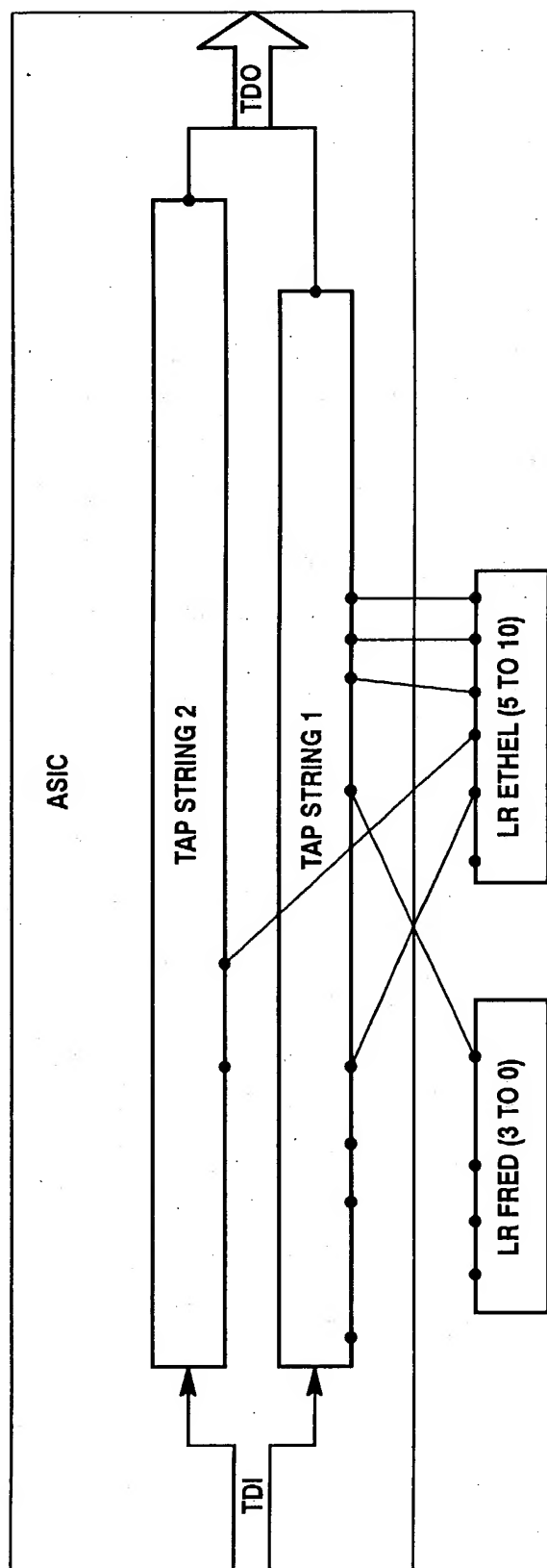


(IN-HOUSE TESTING)

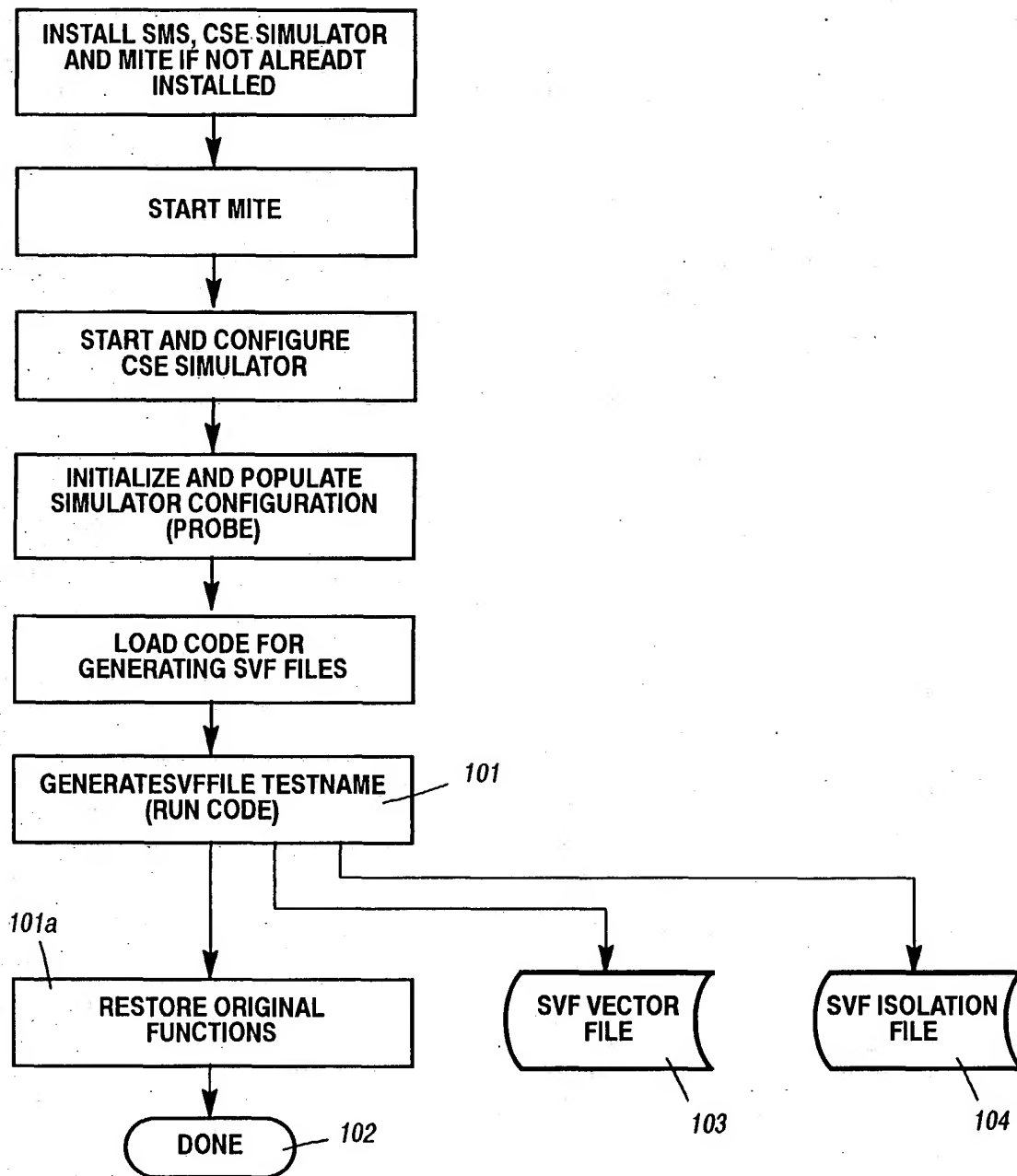
Figure 8A



(THIRD PARTY-ENABLED TESTING)  
**Figure 8B**

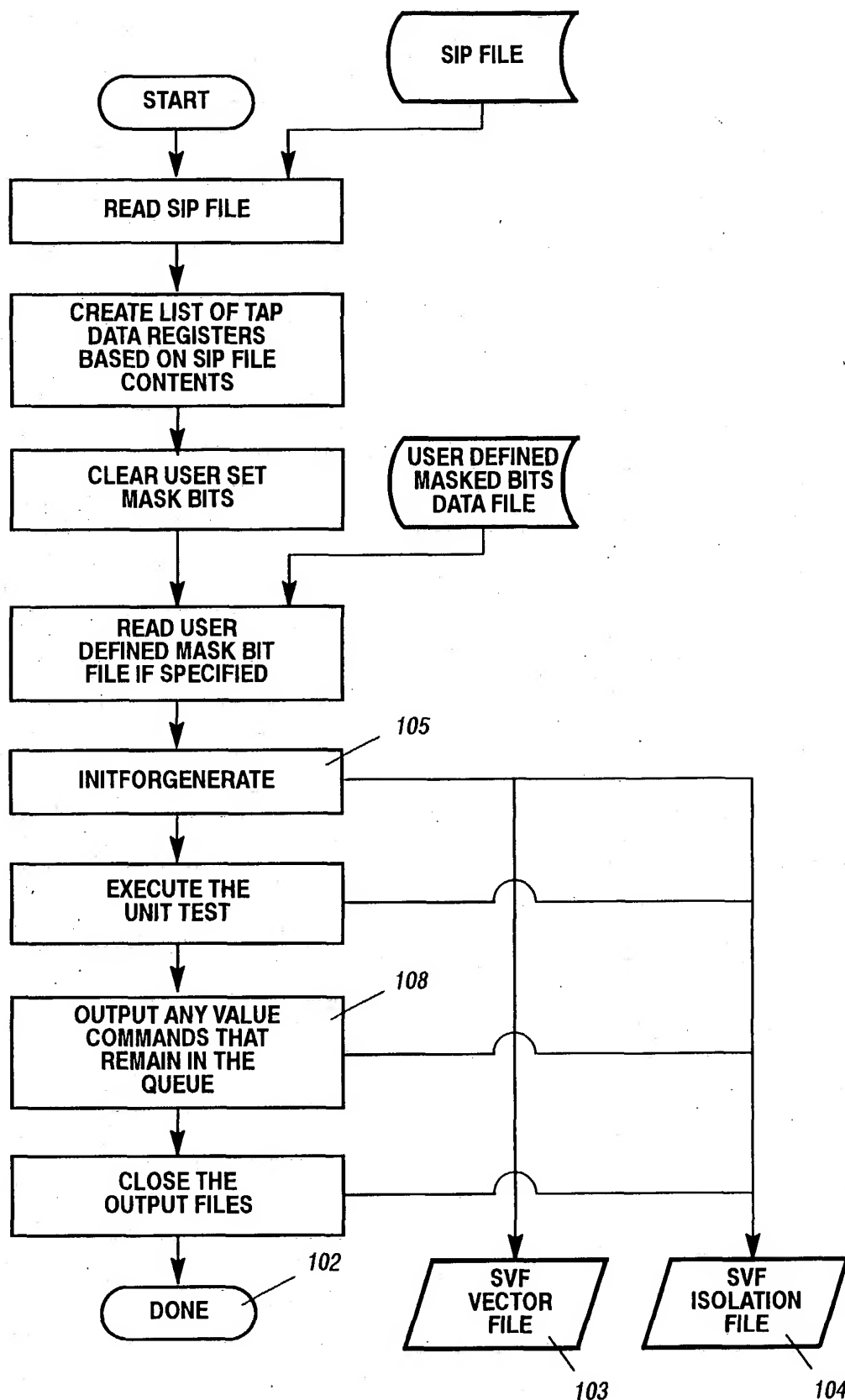


**Figure 9**



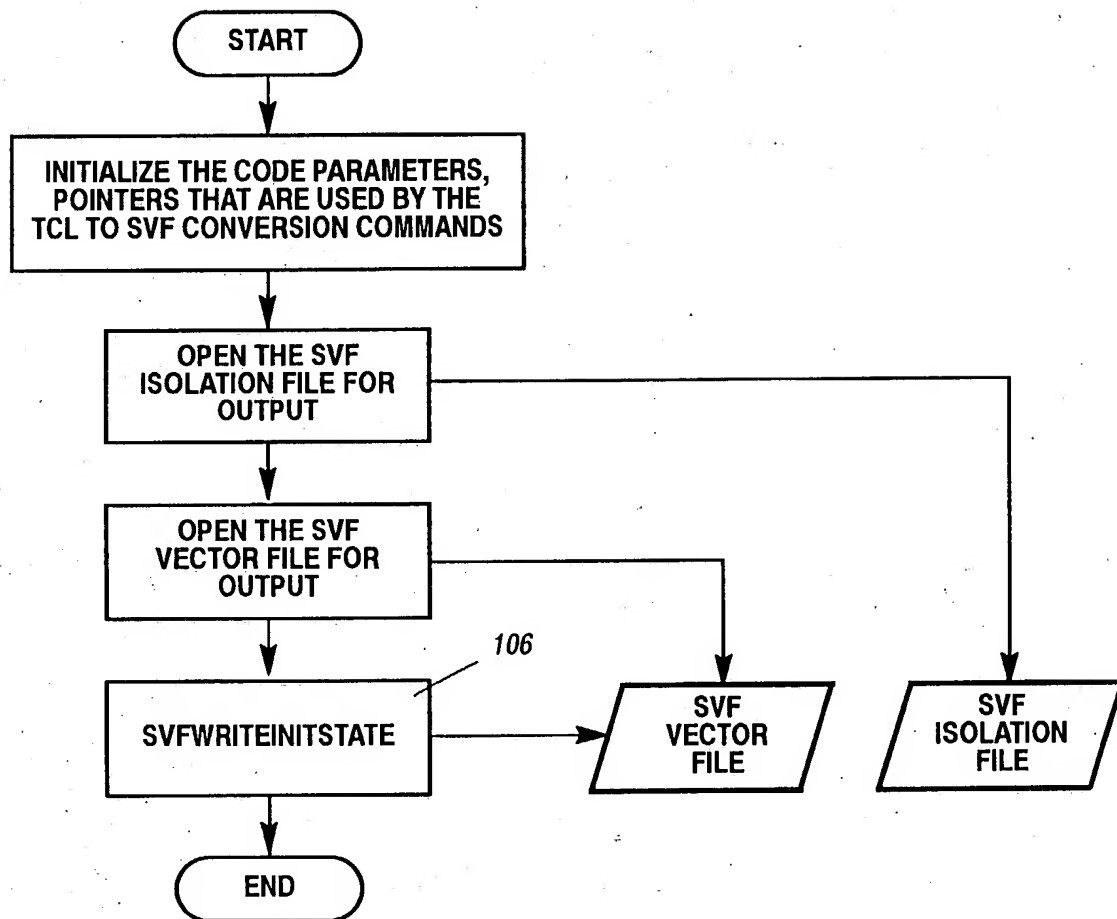
## UNIT TEST TO SVF FORMAT CONVERSION PROCESS

Figure 10A



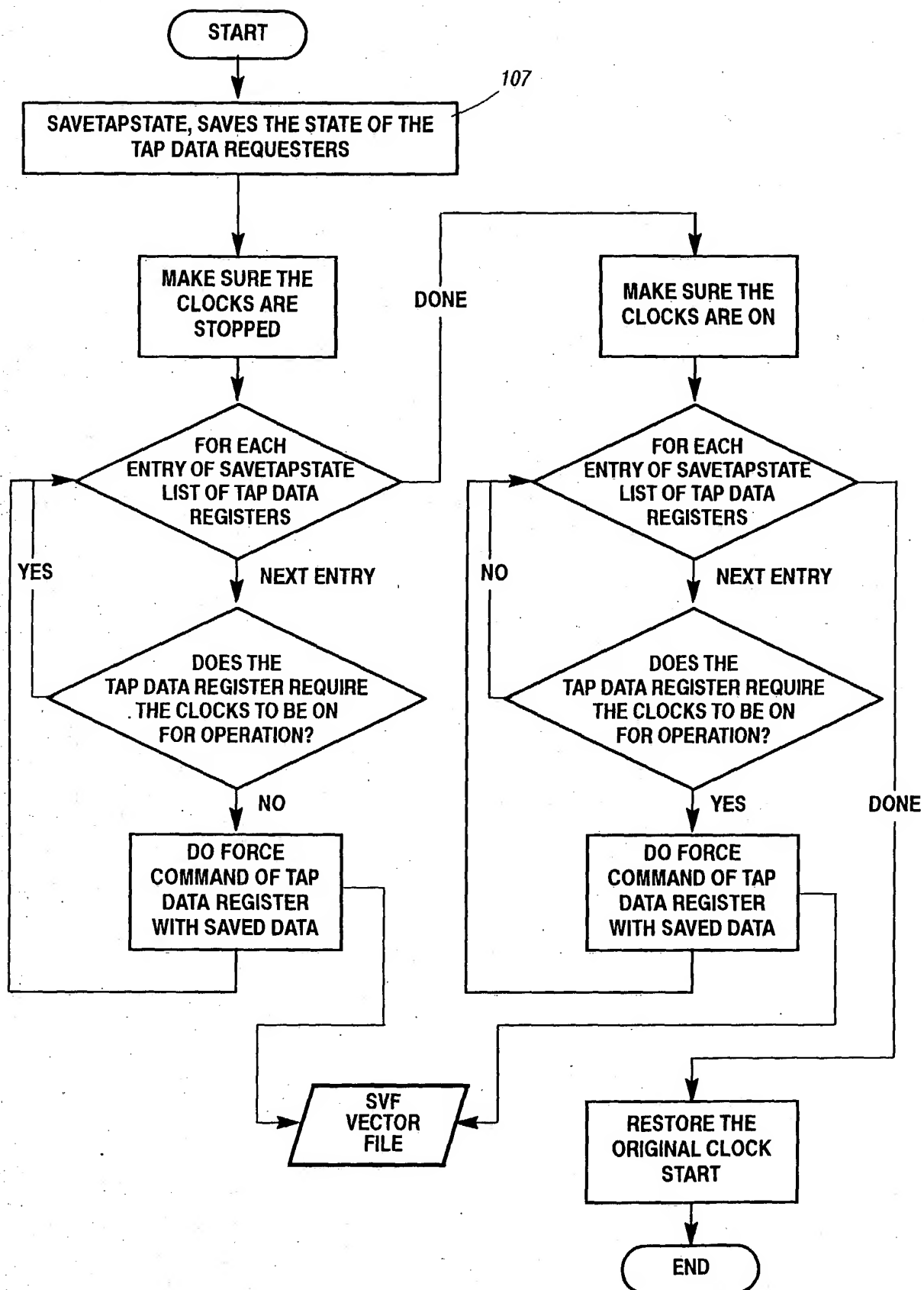
**GENERATESVFFILE FLOWCHART**

***Figure 10B***



**TCL CODE FOR INITFORGENERATE COMMAND FOR TCL  
TO SVF FORMAT CONVERSION**

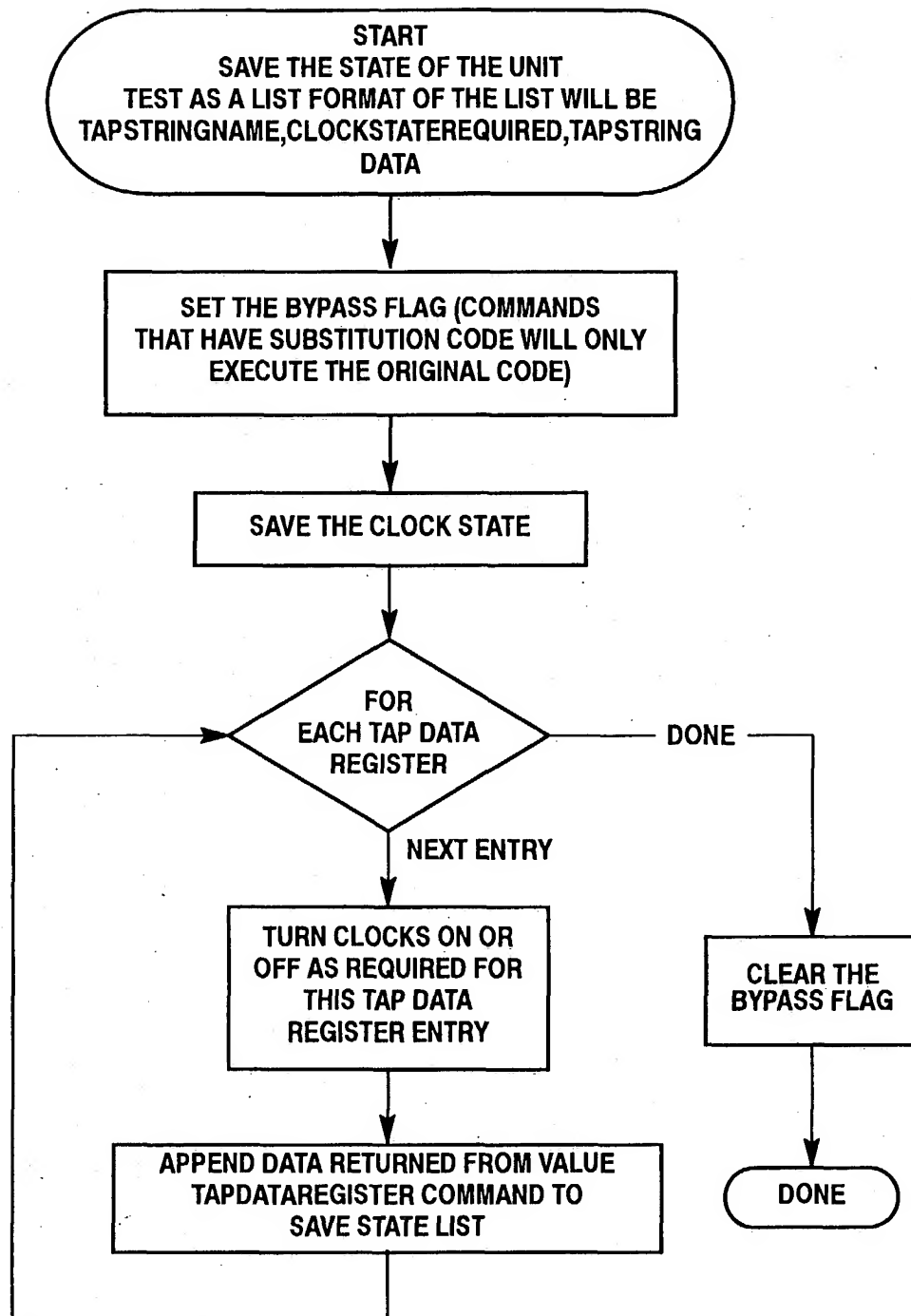
**Figure 10C**



TCL WRITEINITSTATE COMMAND FOR SVF TO TCL CONVERSION

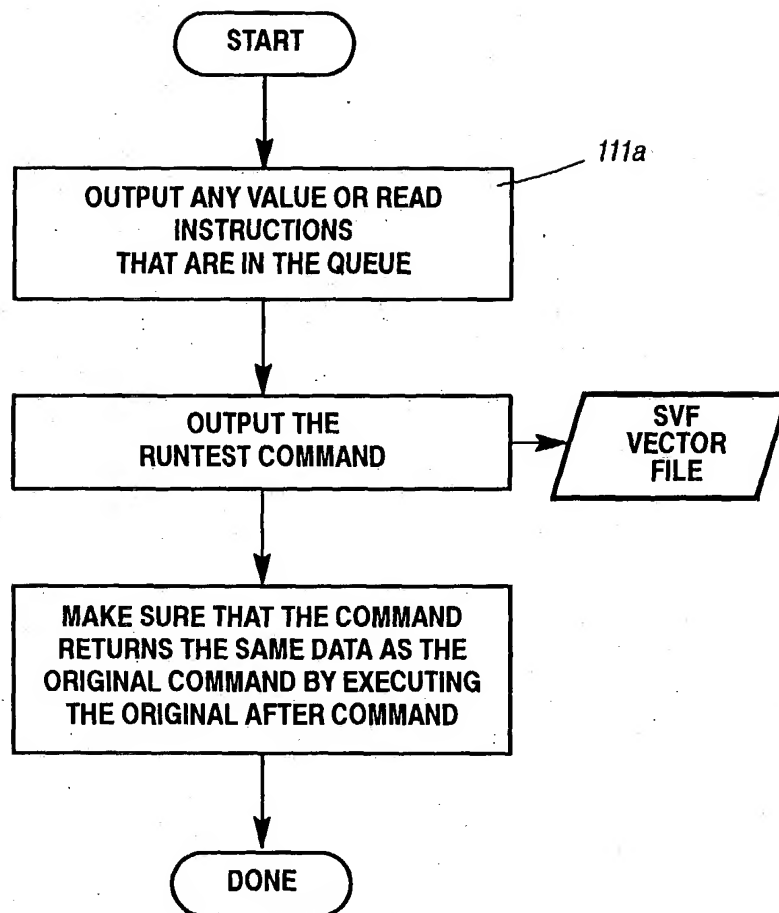
Figure 10D





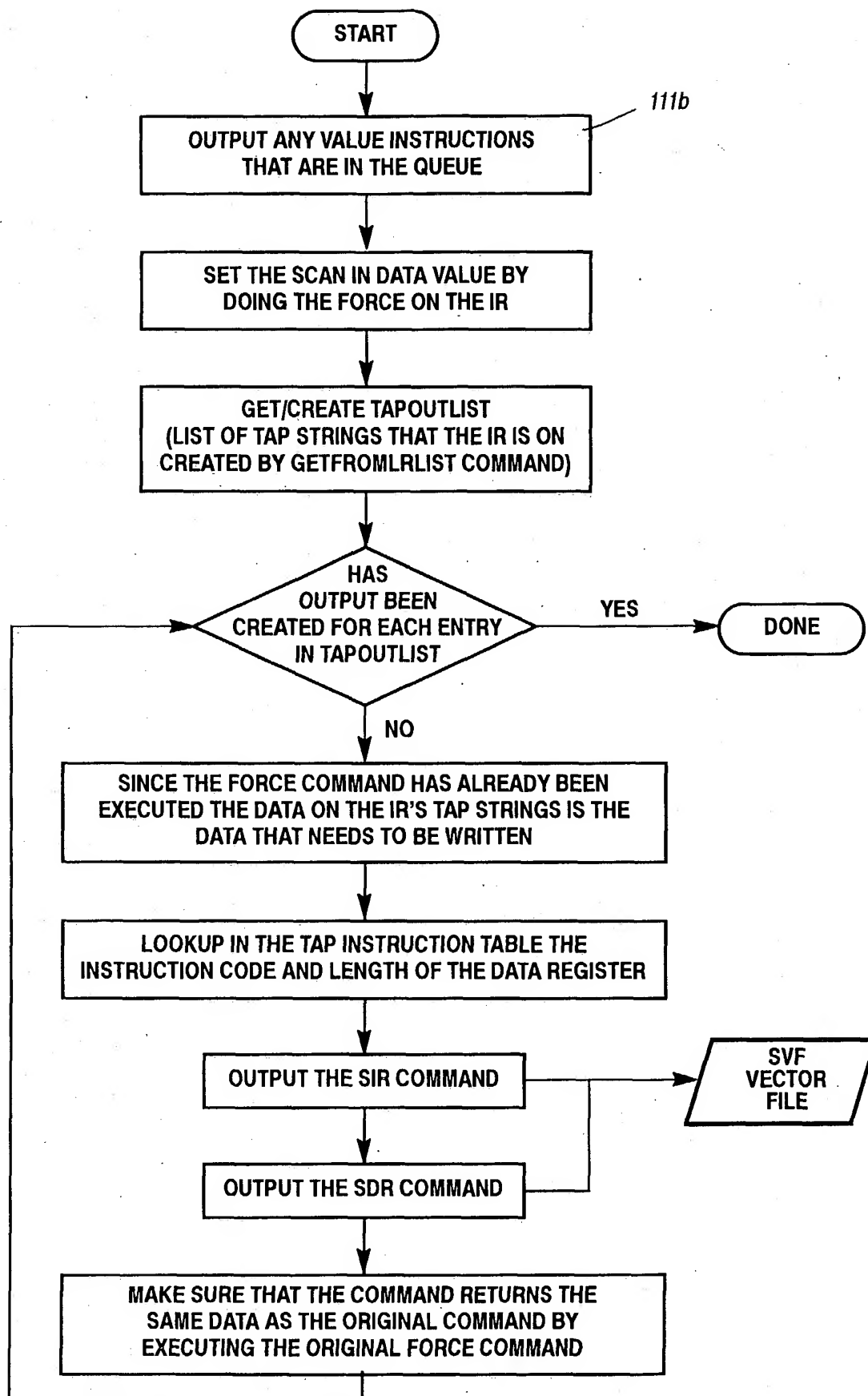
SAVE STATE TEL COMMAND FOR TEL TO SVF CONVERSION

Figure 10E



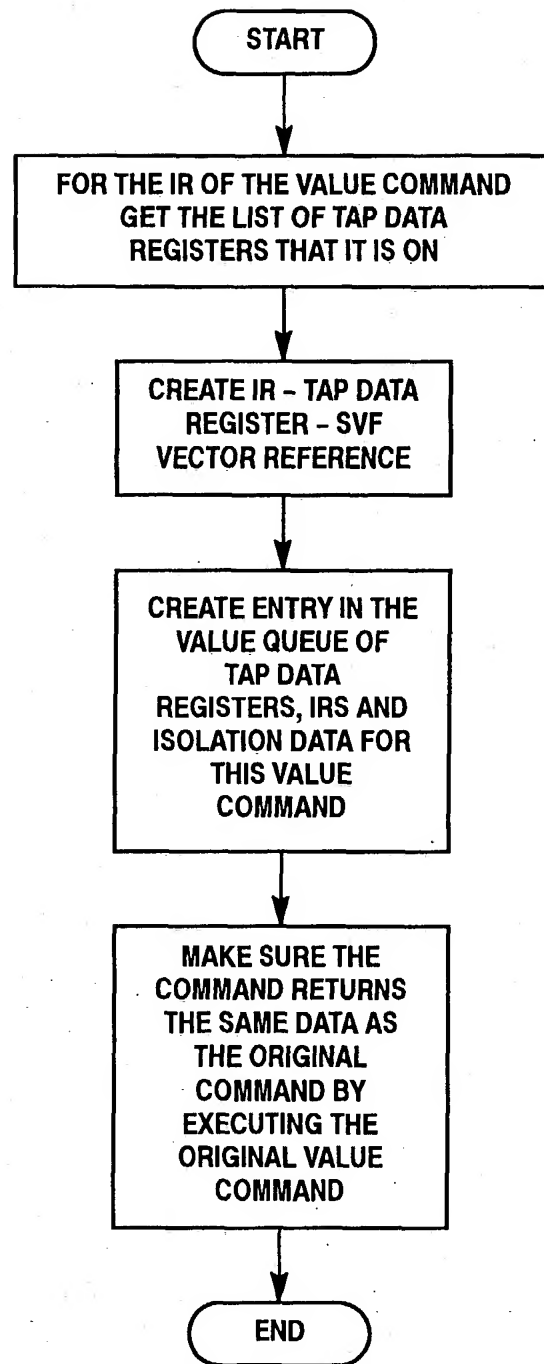
**TCL CODE TO CONVERT AFTER COMMAND TO SVF FORMAT**

**Figure 10F**



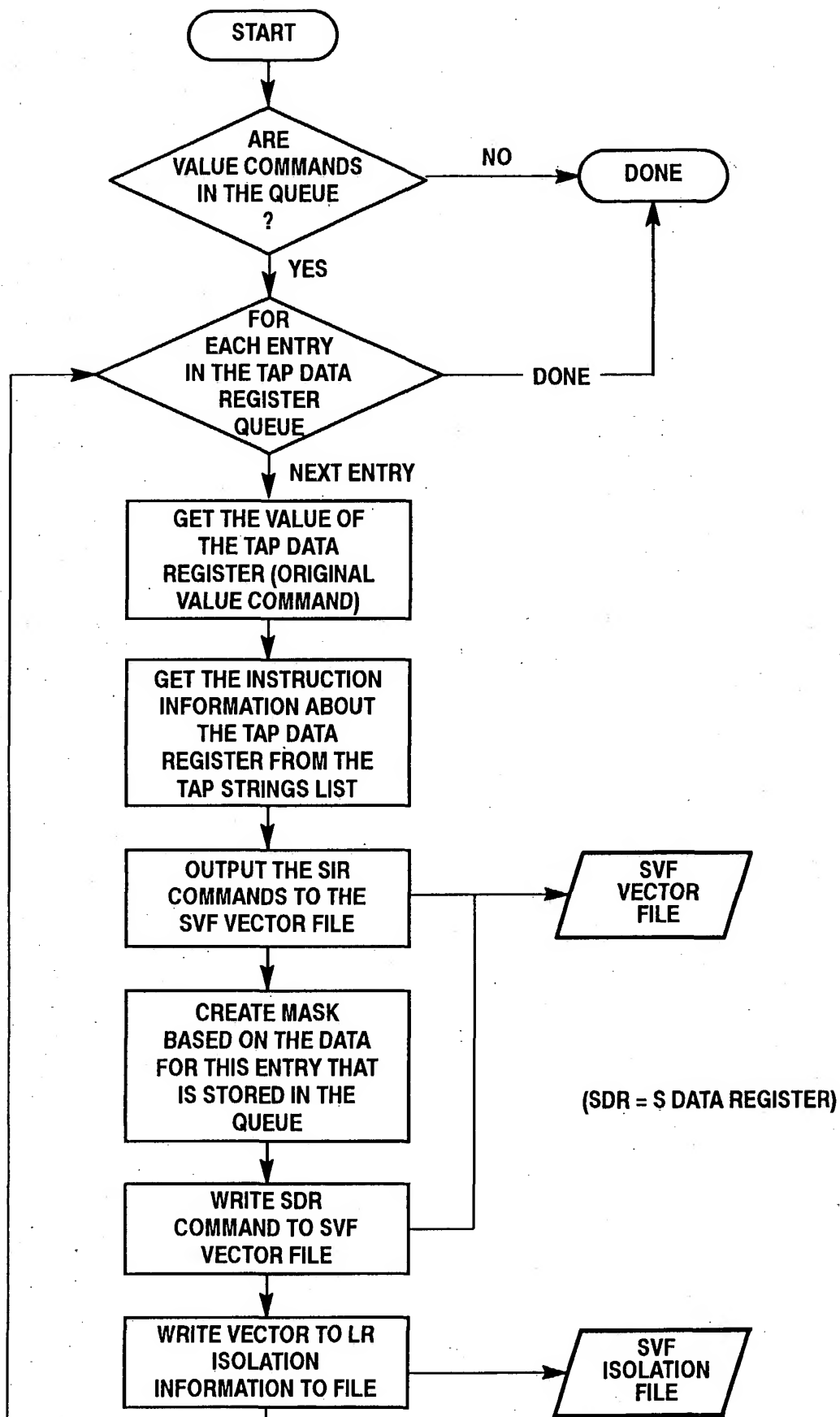
**TCL CODE TO CONVERT FORCE COMMAND TO SVF FORMAT**

**Figure 10G**



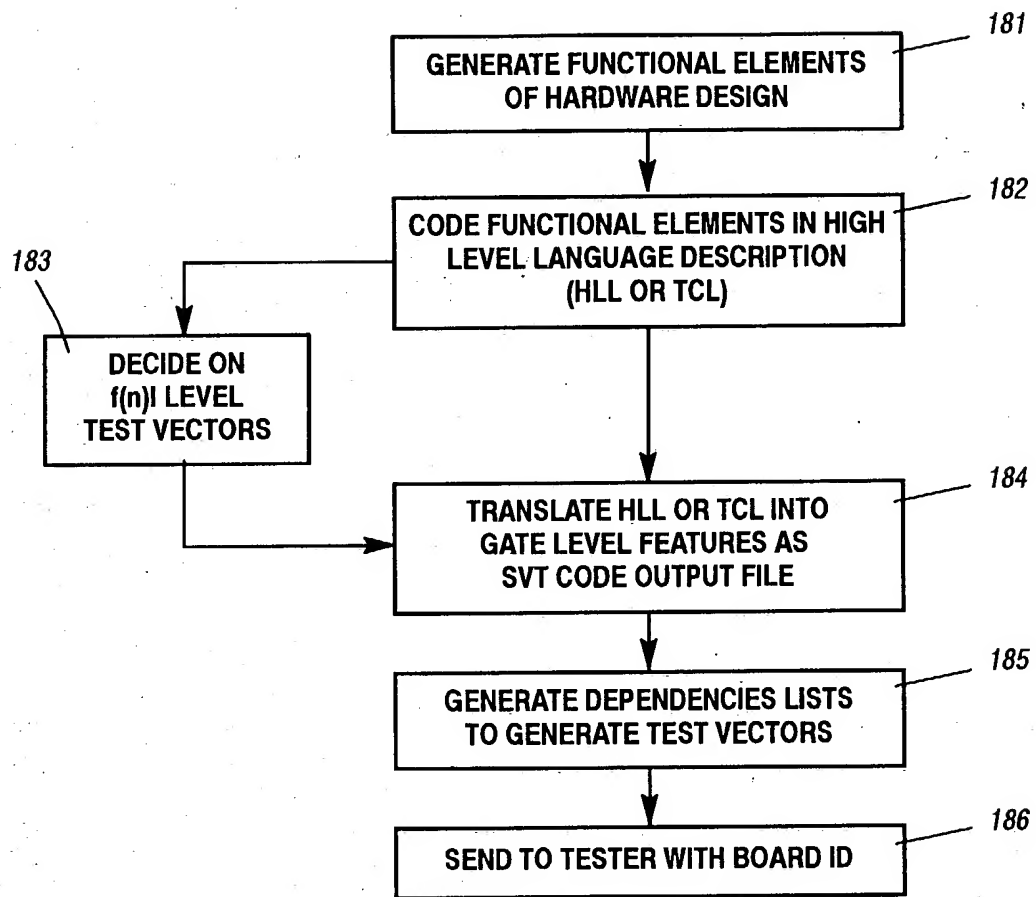
**TCL CODE TO CONVERT VALUE COMMAND TO SVF FORMAT**

**Figure 10H**



**EXPANSION OF OUTPUT VALUE INSTRUCTIONS IN QUEUE  
(IIIa AND IIIb) FROM FIG. 10F AND 10G**

***Figure 10I***



**Figure 11**